

AMENDMENTS TO THE SPECIFICATION

The following is a marked up version of each replacement paragraph and/or section of the specification in which underlines indicate insertions and strikethroughs indicate deletions.

Please replace the paragraph on page 16, containing lines 6-17 with the following paragraph:

For any node v (e.g., S1), net-transition-tree(v) stores all acyclic paths from v to other vertices in its SCC. The tree has v as its root, and its height is equal to the number of nodes in the SCC containing v . Children of v are all the nodes in its SCC that have a direct edge from v . In general, the children of any node $[[\mu]] u$ (e.g., S1-S7) are all the nodes in its SCC that have a direct edge from node $[[\mu]] u$. Note that a node may appear multiple times in this tree. That is, each node has a label where the labels are not necessarily unique. The root node has label v . A node labeled $[[\mu]] u$ has as many children as the outdegree of u (number of edges leaving u) in its SCC, and these children are labeled with the corresponding nodes in the SCC.